

### **III. REMARKS**

1. Claim 1 is amended. Claim 11 is amended to correct a typographical error.
2. Claims 1, 2, 4, 8, 10, 11, 13 and 19 are not unpatentable over Nagai et al. ("Nagai") in view of Yu under 35 U.S.C. §103(a).

Claim 1 recites that "the personal identification number supplied into the mobile station enables the user to use the mobile station". This is not disclosed or suggested by Nagai.

Nagai does not disclose the use of a PIN as an authentication parameter in a mobile device. Nagai also does not use a PIN when authentication regarding the computer network is performed. Nagai does not teach to generate a one-time password in a mobile device using a PIN, Subscriber-specific identifier, Device specific ID and time as parameters, as is claimed by Applicant. In fact, Nagai does not even mention a subscriber-specific identifier and time at all. In Nagai, a one-time password is stored in a PC-card (Pager). It is not generated in the invention of Nagai. Nagai uses the one time password when generating authentication information together with Pager ID. Thus, in Nagai, both the generation and use of one-time password are different compared to Applicant's invention as recited in the claims.

Furthermore, in Nagai, the one-time password is a parameter in an algorithm, whereas in Applicant's invention the one-time password is the output of an algorithm, as illustrated in the following example:

Nagai: one time password + Pager ID -> Authentication password

Applicant's invention: PIN + IMSI + IMEI + time -> one-time password

Also, Nagai does not disclose or suggest the encoding of both the one-time password and the subscriber-specific identifier and the transmission of these variables to a server of a computer system. Nagai merely sends authentication information to a server. The content of the information is different compared to Applicant's invention.

Yu does not remedy the drawbacks of Nagai. Yu merely discloses synchronization of a terminal and a server of a computer system. After synchronisation a common counter value may be used. However, the use of time is not mentioned. Thus, the combination of Nagai and Yu does not disclose or suggest each feature of Applicant's invention.

3. Claims 3 and 12 are not unpatentable over Nagai and Yu and further in view of Dynarski et al. (U.S. Patent No. 6,466,571) ("Dynarski") under 35 U.S.C. §103(a).

Claims 3 and 12 should be allowable at least in view of their respective dependencies.

4. Claims 5-7, 9 and 14-18 are not unpatentable over Nagai, Yu and further in view of Dynarski et al. (U.S. Patent No. 6,626,671) ("Dynarski") under 35 U.S.C. §103(a).

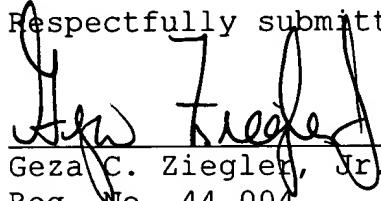
Claims 5-7, 9 and 14-18 should be allowable at least in view of their respective dependencies.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly

novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

A check in the amount of \$950 is enclosed for a three-month extension of time. The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



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21 September 2004

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